

# **DIVING TANK POCKET BUOYANCY COMPENSATOR WITH ADJUSTABLE PRESSURE VALVE**

## **ABSTRACT OF THE DISCLOSURE**

5 A diving-tank-pocket buoyancy compensator has an expandable diving-tank  
pocket (1) that envelopes a diving tank (2) which the diving-tank pocket is articulated  
for containing in addition to at least an inflated buoyancy air cell (3). The buoyancy  
air cell is in fluid communication with a cell end (4) of a buoyancy compensator (BC)  
tube (5) which has a tank end (6) in fluid communication with an inside periphery of  
the diving tank through a regulator tube (35) and a regulator valve (7) on the diving  
10 tank. An adjustable pressure valve (8, 38) intermediate the tank end and the cell end  
of the BC tube is provided to maintain a pre-determined pressure and resulting  
constant volume of air in the buoyancy air cell for maintaining a desired constant  
buoyancy.